

What is claimed is:

1. An apparatus comprising:  
an elongated tubular form element, wherein the tubular form element includes  
5 a tubular boundary of multiple wall faces, wherein the boundary bounds a  
longitudinal interior chamber, wherein the tubular form element includes at least one  
female engagement portion adapted to engagingly receive a male engagement portion,  
wherein the at least one female engagement portion extends into the interior chamber  
from a vertex of adjacent wall faces, wherein the at least one female engagement  
10 portion includes an opening at the boundary, wherein the tubular form element  
includes at least one male engagement portion extending outwardly of the boundary.
2. The apparatus of Claim 1, wherein the tubular form element is of a  
symmetrical permitting geometry.
- 15 3. The apparatus of Claim 1 or 2, wherein the tubular form element is octagonal  
and wherein there are at least five female engagement portions.
4. The apparatus of Claim 1 or 2, wherein the tubular form element is octagonal  
20 and comprises at least seven wall faces and wherein there are at least two male  
engagement portions.
5. The apparatus of any of Claim 1 or 2, wherein the tubular form element has  
apertures in at least one face of the form element.
- 25 6. The apparatus of any of Claim 4, wherein the tubular form element is  
operative to mate with another tubular form element by having one female  
engagement portion of one tubular form element mate with one male engagement  
portion of another tubular form element.
- 30 7. The apparatus of Claim 6, wherein mating of the male engagement portion of  
one tubular form element and the female engagement portion of a second tubular form  
element occurs at a vertex of the second tubular form element.

8. The apparatus of Claim 7, wherein mated multiple tubular form elements are operative to form a wall structure.
9. The apparatus of Claim 8, comprising multiple wall structures, wherein the  
5 multiple wall structures form at least one wall of a building.
10. The apparatus of Claim 8, further comprising insulation, reinforcing bars, and concrete within the multiple wall structures.

What is claimed is:

1. An apparatus comprising:  
an elongated tubular form element, wherein the tubular form element includes  
5 | a tubular boundary of **multiple wall faces**, wherein the boundary bounds a  
longitudinal interior chamber, wherein the tubular form element includes at least one  
female engagement portion adapted to engagingly receive a male engagement portion,  
wherein the at least one female engagement portion extends into the interior chamber  
| **from a vertex of adjacent wall faces**, wherein the at least one female engagement  
10 | portion includes an opening at the boundary, wherein the tubular form element  
includes at least one male engagement portion extending outwardly of the boundary.
2. The apparatus of Claim 1, wherein the tubular form element is of a  
symmetrical permitting geometry.
- 15 | 3. The apparatus of Claim 1 or 2, wherein the tubular form element is octagonal  
and wherein there are at least five female engagement portions.
- 20 | 4. The apparatus of Claim 1 ~~or~~ 2, ~~or~~ 3, wherein the tubular form element is  
octagonal and comprises at least seven wall faces and wherein there are at least two  
male engagement portions.
- 25 | 5. The apparatus of any of Claims **1 or 2-4**, wherein the tubular form element  
has apertures in at least one face of the form element.
- 30 | 6. The apparatus of any of Claims **4-5**, wherein the tubular form **element** is  
operative to mate with another tubular form element by having one female  
engagement portion of one tubular form element mate with one male engagement  
portion of another tubular form element.
7. The apparatus of Claim 6, wherein mating of the male engagement portion of  
| **one tubular form element** and the female engagement portion of **a second tubular**  
| **form element** occurs at a vertex of the **second tubular** form element.

8. The apparatus of Claim 7, wherein mated multiple tubular form elements are operative to form a wall structure.
9. The apparatus of Claim 8, comprising multiple wall structures, wherein the  
5 multiple wall structures form at least one wall of a building.
10. The apparatus of Claim 8 or Claim 9, further comprising insulation,  
reinforcing bars, and concrete within the multiple wall structures.